

AMENDMENTS TO THE SPECIFICATION

Please replace the first paragraph which begins on page 6, line 1, and which on line 16, with the following rewritten paragraph:

In the Specification

I) the scanning frequency f_A and the pulse repetition frequency f_{prf} are varied, and either II.1) the time-expanded display of the reflection profile remains unchanged, or II.2) if the reflection profile changes over time, the change in the time expansion is known and is taken into account in the evaluation of the profile, III) an amount of interference is determined from at least one measurement of the reflection profile or a part thereof; IV) for deciding about the usability of the measured values, or a single measured value, an algorithm is used which from the measured values, or a single measured value, and the amount of interference calculates whether the reflection profile is sufficiently free of interference that adequate measurement accuracy is achieved. ~~Advantageous refinements of the method are defined by dependent claims 2-9.~~

Please replace the first paragraph which begins on page 11, line 1 and which ends on line 13, with the following rewritten paragraph:

The amount of interference is obtained from the deviations of the measured reflection profile from a reference profile determined beforehand under interference-free conditions. As the amount of interference, the difference between the maximum and minimum deviation of the reflection profile from a predetermined value or from the reference profile in a defined time or distance slot, such as the starting of ascertaining the profile until the onset of the transmission pulse, namely the range domain A in Fig. 3, can be used. The

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threshold at which, when it is exceeded, the scanning frequency is varied is obtained from the deviations from the reference profile that are still tolerable for assuring a given measurement accuracy.